

3BHE022294R0101 GFD233 A101

GFD233 A101 Assembly

INSTALLATION, INTERFACE AND VALIDATION WORKBOOK

ABB 3BHE022294R0101 GFD233 A101 is an exact-identity industrial assembly. It is used only in the installed ABB system position whose hardware and connection records match this complete designation.

STEP	GATE	ENGINEERING PURPOSE
01	IDENTIFY	Confirm article, host and hardware
02	ISOLATE	Secure power and stored energy
03	CONNECT	Restore documented interfaces
04	VALIDATE	Prove diagnostics and function

WORKBOOK PURPOSE

Field-ready identity, isolation, connection, commissioning and closeout records for this exact ABB article.

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com



3BHE022294R0101

GFD233 A101

Installation Readiness Gate

Complete the identity, host-system and isolation checks before disturbing the installed hardware.

- 1

Confirm the complete 3BHE022294R0101 and GFD233 A101 marking before work.
- 2

Place the host machine and associated control circuits in the approved maintenance state.
- 3

Isolate power and prove stored energy discharged before opening the cabinet.
- 4

Use ESD controls and photograph every connector, jumper and mounting position.

Pre-Work Evidence

EVIDENCE ITEM	RECORDED VALUE
Complete article marking	3BHE022294R0101 GFD233 A101
Host / carrier	installed ABB industrial control system
Primary system role	Uses the complete ABB manufacturer item number for replacement control
Acceptance boundary	Review diagnostics and complete a recorded functional test before production release.
Source record	

WORK AUTHORIZATION RECORD

Work order: _____

Drawing / revision: _____

Checked by: _____

Date: _____

Isolation and Access Register

CONTROL POINT	ENGINEER RECORD
Incoming supply	Isolated / proved
Stored energy	Discharged / proved
Field connections	Identified / protected
ESD control	Established / recorded

Pre-Work Documentation

DOCUMENT	ENGINEER RECORD
Connection photograph	Reference / file
Configuration backup	Reference / revision
Diagnostic baseline	Reference / result

Connection and Installation Sequence

INSTALLATION PRINCIPLE

Record the installed position, board revision, connectors, jumpers and cable identifiers before removing 3BHE022294R0101 GFD233 A101. Fit only an exact matching execution, restore the documented configuration and complete controlled diagnostics before release.

- 1

Record the installed hardware revision and all cable identifiers before removal.
- 2

Inspect mating connectors, grounding points, cooling path and fastening hardware.
- 3

Restore the documented cabinet configuration before controlled energization.
- 4

Review diagnostics and complete a recorded functional test before production release.

Connection Record

CONNECTION GROUP	AS-FOUND / AS-LEFT RECORD	STATUS
Power / field connection	Reference / terminal	Checked
Signal / interface	Reference / connector	Checked
Ground / shield	Reference / point	Checked
Accessory / carrier	Reference / part	Checked

MODEL-SPECIFIC RELEASE LIMIT

Confirm 3BHE022294R0101, GFD233 A101, the installed ABB host cabinet, hardware revision, connector and terminal assignments, jumpers, wiring, protective grounding, cooling, configuration and controlled diagnostic and functional-test results before commissioning.

Interface Acceptance Criteria

ACCEPTANCE ITEM	REQUIRED EVIDENCE
Identity	3BHE022294R0101 GFD233 A101
Host match	installed ABB industrial control system
Connection proof	Inspect mating connectors, grounding points, cooling path and fastening hardware.
Configuration proof	Restore the documented cabinet configuration before controlled energization.

Commissioning and Acceptance Record

Record each controlled verification step before the equipment returns to automatic operation.

NO.	ACCEPTANCE CHECK	RESULT	RECORD
1	Article and host identity	PASS / FAIL	Initial / date
2	Mechanical installation	PASS / FAIL	Initial / date
3	Power and field wiring	PASS / FAIL	Initial / date
4	Grounding and shielding	PASS / FAIL	Initial / date
5	Configuration restoration	PASS / FAIL	Initial / date
6	Signal or power-path response	PASS / FAIL	Initial / date
7	Diagnostics and alarms	PASS / FAIL	Initial / date
8	Final functional release	PASS / FAIL	Initial / date

Engineering Notes

RECORD AREA	ENGINEER ENTRY
As-found condition	
Corrective action	
As-left configuration	
Outstanding restriction	
Release authorization	

CONTROLLED COMMISSIONING

Review diagnostics and complete a recorded functional test before production release.

Diagnostics and Release Log

EVENT	ENGINEERING RECORD
Initial energization	Result / observation
Interface or signal response	Result / observation
Alarm and diagnostic review	Result / observation
Functional release	Name / date

Maintenance Verification and Closeout

Documented ABB cabinet restoration

Restores the exact assembly position recorded in an existing control cabinet.

Hardware-revision controlled replacement

Maintains the approved board execution when an installed assembly is exchanged.

Connector-map preservation

Supports work where every fitted cable and terminal position must be reproduced.

Controlled system recommissioning

Provides an exact article reference for diagnostics and functional acceptance after service.

Related Engineering Pages

MODEL	ENGINEERING ROLE	APTER POWER PAGE
YPC111B	optical distribution board	View YPC111B page
3BHB003041R0101	drive control board	View 3BHB003041R0101 page
ZINT-592	inverter main circuit board	View ZINT-592 page
ZCU-14	3AXD50000182992 control unit	View ZCU-14 page
ZCU-14	3AXD50000005164 control unit	View ZCU-14 page
XVC772A102	3BHE032285R0102 control board	View XVC772A102 page
NBRA-657C	braking chopper	View NBRA-657C page
RMIO-11C	3AUA0000035408 control board	View RMIO-11C page

MANUFACTURER SOURCE RECORD

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